Technical *Bulletin*

Subject: **Dual Circuit Brake Valves**

We have recently experienced leakage problems at the exhaust of our dual circuit brake valves with double check stop light switches installed. Some OEM manufacturers are using a double check stop light switch between the two circuits of the dual brake valve to eliminate the need for two stop light switches. One inlet to the double check is supplied from the primary delivery circuit of the dual valve and the other is from the secondary circuit. The delivery port of the double check stop light switch is plugged.

In some cases, when a brake application is made and partially released, leakage out the exhaust of the brake valve occurs. This leakage is a result of the double check shuttle centering itself allowing the primary and secondary circuits of the brake valve to cross feed. If this application is held for an excessively long period of time both circuits of the system can be bled down. Additional application or release of the valve, however, will stop the leakage.

If this leakage problem occurs, our recommendation is to install a separate stop light switch in each circuit of the dual brake valve and wire switches in parallel.

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